

Title (en)  
DATA COMPRESSION PROCESS DURING STORAGE AND/OR TRANSMISSIOIN OF DIGITAL AUDIO SIGNALS FOR STUDIO APPLICATIONS

Title (de)  
VERFAHREN ZUR DATENREDUKTION BEI DER SPEICHERUNG UND/ODER ÜBERTRAGUNG DIGITALER AUDIOSIGNALE FÜR STUDIO-ANWENDUNGEN

Title (fr)  
PROCEDE DE REDUCTION DE DONNEES LORS DE LA MEMORISATION ET/OU DE LA TRANSMISSION DE SIGNAUX AUDIO NUMERIQUES POUR APPLICATIONS EN STUDIO

Publication  
**EP 0632940 B1 20001018 (DE)**

Application  
**EP 93905148 A 19930225**

Priority  
• DE 9300177 W 19930225  
• DE 4209382 A 19920323

Abstract (en)  
[origin: WO9319536A1] A data compression process is disclosed for the storage and/or transmission of digital audio signals. Known processes, such as ASPEC, allow high quality music to be transmitted in a data stream that contains less than 10 % of the information contained in the data stream used in a CD. Known compression processes do not measure up, however, to the requirements of the professional studio technology, as the subsequent processing of the audio signals that takes place in the studio leads to audible disturbances. The disclosed process is insensitive to subsequent processing, such as tandem coding, mixing or fading. To achieve this insensitivity, the transposition of the audio signal from the time domain to the frequency domain is carried out with perfect reconstruction by means of a filter bank, the psychoacoustic masking effect is utilised to an essentially less extent, and a cascade multidimensional Huffman code is used for coding variable word lengths. This process allows audio signals destined to be used in studio technology to be transmitted at a data rate of 192 kbit/sec per channel.

IPC 1-7  
**H04B 1/00**; **H03M 7/40**

IPC 8 full level  
**G10L 19/00** (2013.01); **G10L 19/02** (2013.01); **G10L 19/035** (2013.01); **H03M 7/30** (2006.01); **H03M 7/40** (2006.01); **H03M 7/42** (2006.01); **H04B 1/00** (2006.01); **H04B 14/04** (2006.01); **H04H 20/95** (2008.01)

CPC (source: EP KR)  
**H03M 7/42** (2013.01 - EP); **H04B 1/00** (2013.01 - KR); **H04H 20/95** (2013.01 - EP)

Citation (examination)  
• DE 3912605 A1 19901025 - FRAUNHOFER GES FORSCHUNG [DE]  
• "ASPEC Coding", Proceedings of the 10th International AES Conference, London 1991, Seiten 81 bis 90

Cited by  
DE10240135A1; DE10240135B4; US7305425B2

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DOCDB simple family (publication)  
**WO 9319536 A1 19930930**; AT E197105 T1 20001115; AU 3625493 A 19931021; AU 670068 B2 19960704; CA 2131806 A1 19930930; DE 4209382 C1 19930318; DE 59310119 D1 20001123; EP 0632940 A1 19950111; EP 0632940 B1 20001018; JP H07508375 A 19950914; KR 950701161 A 19950220; NO 943520 D0 19940922; NO 943520 L 19940922

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